Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3637	network and (fsm or (finite adj state adj machine))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:31
S2	664	S1 and (alert or alarm or warning)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:27
S3	494	S2 and (simulat$5 or emulat$5 or model$5)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:27
S4	114	S3 and (compar$5 same (simulat$5 or emulat$5 or model$5))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:27
S5	742	S1 and (alert$3 or alarm$3 or warn$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:27
S6	541	S5 and (simulat$5 or emulat$5 or model$5)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:27
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S8	24	S7 and (compar$5 same (alert$3 or alarm$3 or warn$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:38
S9	10	S8 and @ad<"20000926"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:30
S10	10	(S8 or S9) and (server)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 14:43
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S12	0	S9 not S8	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 16:23

S13	1	"6668203".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 16:24
S14	1	"6668203".uref.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 16:25
S15	1	"4141006".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:26
S16	1	"5394347".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:26
S17	1	"5485600".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:26
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S20	1	"6408262".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:27
S21	1	"6434512".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:27
S22	1	"6477439".PN.	USPAT; USOCR	OR	ON	2005/01/05 16:27
S23	1	"20020103550".PN.	US-PGPUB	OR	ON	2005/01/05 16:27

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	31306	(network same security)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S2	321	S1 and (fsm or (finite adj state adj machine))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S3	149	S2 and (alarm$3 or warn$3 or alert$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S4	131	S3 and compar$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:40
S5	19716	(network with security)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S6	3760	(network adj security)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S7	41	S6 and (fsm or (finite adj state adj machine))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S8	25	S7 and (alarm$3 or warn$3 or alert$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:39
S9	23	S8 and compar$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/05 17:40

Search S9 (23 patents)

	Document ID	Issue Date	Title	Current OR	Current XRef
1	US 20040250124 A1	20041209	Dynamic network protection	713/201	709/224
2	US 20040202190 A1	20041014	Layer-1 packet filtering	370/410	709/238; 713/201
3	US 20040174820 A1	20040909	Lossless, stateful, real-time pattern matching with deterministic memory resources	370/245	370/401
4	US 20040059910 A1	20040325	Filtering and application triggering platform	713/154	
5	US 20040028123 A1	20040212	System and method for real-time spectrum analysis in a radio device	375/224	
6	US 20030097595 A1	20030522	Method and system for passively analyzing communication data based on frequency analysis of encrypted data traffic, and method and system for deterring passive analysis of communication data	713/201	709/224
7	US 20030086515 A1	20030508	Channel adaptive equalization precoding system and method	375/346	
8	US 20030051026 A1	20030313	Network surveillance and security system	709/224	706/909; 713/201
9	US 20030046396 A1	20030306	Systems and methods for managing resource utilization in information management environments	709/226	
10	US 20030016770 A1	20030123	Channel equalization system and method	375/346	
11	US 20020194251 A1	20021219	Systems and methods for resource usage accounting in information management environments	718/105	718/104

	Document ID	Issue Date	Title	Current OR	Current XRef
12	US 20020152305 A1	20021017	Systems and methods for resource utilization analysis in information management environments	709/224	709/205; 709/225
13	US 20020124187 A1	20020905	System and method for analyzing protocol streams for a security-related event	713/201	709/224
14	US 20010052014 A1	20011213	Systems and methods for distributed network protection	709/225	
15	US 6785821 B1	20040831	Intrusion detection system and method having dynamically loaded signatures	713/200	709/223; 709/224; 719/331
16	US 6542739 B1	20030401	Priority and preemption service system for satellite related communication using central controller	455/427	455/1; 455/12.1; 455/512
17	US 6484257 B1	20021119	System and method for maintaining N number of simultaneous cryptographic sessions using a distributed computing environment	713/153	380/279; 380/33; 380/34; 713/201
18	US 6411806 B1	20020625	Virtual network configuration and management system for satellite communications system	455/428	455/12.1; 455/430
19	US 6401117 B1	20020604	Platform permitting execution of multiple network infrastructure applications	709/223	
20	US 6243580 B1	20010605	Priority and preemption service system for satellite related communication using central controller	455/428	455/12.1
21	US 6112085 A	20000829	Virtual network configuration and management system for satellite communication system	455/428	455/430

	Document ID	Issue Date	Title	Current OR	Current XRef
22	US 6058307 A	20000502	Priority and preemption service system for satellite related communication using central controller	455/428	455/12.1
23	US 5414833 A	19950509	Network security system and method using a parallel finite state machine adaptive active monitor and responder	713/201	713/164; 713/188

Terms used **finite state machine network security** Found **12** of **148,162**

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1 Real-time protocol analysis for detecting link-state routing protocol attacks
Ho-Yen Chang, S. Felix Wu, Y. Frank Jou
February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1
Full text available: pdf(252.10 KB) Additional Information: full citation, abstract, references, citings, index terms

A real-time knowledge-based network intrusion-detection model for a link-state routing protocol is presented for the OSPF protocol. This model includes three layers: a data process layer to parse packets and dispatch data; and event abstractor to abstract predefined real-time events for the link-state routing protocol; and an extended timed finite state machine to express the real-time behavior of the protocol engine and to ...

Keywords: OSPF attacks, event correlation, knowledge-based IDS, link-state routing protocol security, real-time misuse intrusion detection, real-time network protocol analysis, timed finite state machine

2 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

3 Cryptographic protocols/ network security: A composable cryptographic library with nested operations
Michael Backes, Birgit Pfitzmann, Michael Waidner
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**
Full text available: pdf(234.97 KB) Additional Information: full citation, abstract, references, citings, index terms

We present the first idealized cryptographic library that can be used like the Dolev-Yao model for automated proofs of cryptographic protocols that use nested cryptographic operations, while coming with a cryptographic implementation that is provably secure under active attacks.

Keywords: cryptographically composable operators, cryptography, security analysis of

protocols, simulatability

4 Stateful distributed interposition
John Reumann, Kang G. Shin
February 2004 **ACM Transactions on C mputer Systems (TOCS)**, Volume 22 Issue 1
Full text available: pdf(833.84 KB) Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

5 Contents of the Computer Communication Review 1970–1994
David Oran
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1
Full text available: pdf(1.75 MB) Additional Information: full citation, index terms

6 Modeling methodology b: Network modeling and simulation: a scalable simulator for TinyOS applications
Luiz Felipe Perrone, David M. Nicol
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**
Full text available: pdf(145.44 KB) Additional Information: full citation, abstract, references

Large clouds of tiny devices capable of computation, communication and sensing, goal of the Smart Dust project, will soon become a reality. Hardware miniaturization is shrinking devices and research in software is producing applications that allow devices to communicate and cooperate toward a common goal. Success on the software front hinges on the design of algorithms that can scale up with system size. Given that the number of individual cooperating devices will reach high orders of magnitu ...

7 Protocols: Performance analysis of the CONFIDANT protocol
Sonja Buchegger, Jean-Yves Le Boudec
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**
Full text available: pdf(187.16 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile ad-hoc networking works properly only if the participating nodes cooperate in routing and forwarding. However,it may be advantageous for individual nodes not to cooperate. We propose a protocol, called CONFIDANT, for making misbehavior unattractive; it is based on selective altruism and utilitarianism. It aims at detecting and isolating misbehaving nodes, thus making it unattractive to deny cooperation. Trust relationships and routing decisions are based on experienced, observed, or repor ...

Keywords: cooperation, fairness, mobile ad-hoc networks, reputation, robustness, routing, trust

8 What packets may come: automata for network monitoring
Karthikeyan Bhargavan, Satish Chandra, Peter J. McCann, Carl A. Gunter
January 2001 **ACM SIGPLAN N tices , Pr ceedings f the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 36 Issue 3
Full text available: pdf(284.05 KB) Additional Information: full citation, abstract, references, index terms

We consider the problem of monitoring an interactive device, such as an implementation of a network protocol, in order to check whether its execution is consistent with its specification. At rst glance, it appears that a monitor could simply follow the input-output trace of the device and check it against the specification. However, if the monitor is able to observe inputs and outputs only from a vantage point *external* to the device---as is typically the case---the problem becomes surpris ...

9 A model for verification of data security in operating systems
Gerald J. Popek, David A. Farber
September 1978 **Communications of the ACM**, Volume 21 Issue 9
Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

Program verification applied to kernel architectures forms a promising method for providing uncircumventably secure, shared computer systems. A precise definition of data security is developed here in terms of a general model for operating systems. This model is suitable as a basis for verifying many of those properties of an operating system which are necessary to assure reliable enforcement of security. The application of this approach to the UCLA secure operating system is also discussed ...

Keywords: operating systems, program verification, protection, security

10 Local and congestion-driven fairness algorithm in arbitrary topology networks
Alain Mayer, Yoram Ofek, Moti Yung
June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3
Full text available: pdf(195.94 KB) Additional Information: full citation, references, index terms

11 Experiences with network-based user agents for mobile applications
Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2
Full text available: pdf(631.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

12 Supporting personal mobility for nomadic computing over the internet
Yalun Li, Victor C. M. Leung
April 1997 **ACM SIGMOBILE Mobile C mputing and Communications Review**, Volume 1 Issue 1
Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings

This paper presents a new paradigm for nomadic computing over the Internet called universal personal computing (UPC), where mobile users can access computing resources, network services, and personalized computing environments anywhere using any available terminals. The concept of UPC and system design issues are discussed, and the required system architecture capable of managing different mobile objects, i.e., users and terminals, in the UPC environment is presented. Modifications of connection ...

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1 **Knowledge-based key-hole monitoring of users for security contr l i transaction processing systems**
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Networks, 1993. International Conference on Information Engineering '93. 'Communications and Networks for the Year 2000', Proceedings of IEEE Singa International Conference on , Volume: 1 , 6-11 Sept. 1993
Pages:416 - 420 vol.1

[Abstract] [PDF Full-Text (376 KB)] IEEE CNF

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2 **Constructing network models from workflows**
Wong, W.E.; Mulcare, D.; Vilela, P.; Li, J.J.;
Computer Communications and Networks, 2001. Proceedings. Tenth Internati Conference on , 15-17 Oct. 2001
Pages:368 - 373

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

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3 **A data-driven finite state machine model for analyzing security vulnerabilities**
Shuo Chen; Kalbarczyk, Z.; Xu, J.; Iyer, R.K.;
Dependable Systems and Networks, 2003. Proceedings. 2003 International Conference on , 22-25 June 2003
Pages:605 - 614

[Abstract] [PDF Full-Text (376 KB)] IEEE CNF

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4 **Quantifying the c st f pr viding intrusi n tolerance in gr up c mmunicati n systems**
Ramasamy, H.V.; Pandey, P.; Lyons, J.; Cukier, M.; Sanders, W.H.;

Dependable Systems and Networks, 2002. Proceedings. International Confere on , 23-26 June 2002
Pages:229 - 238

[Abstract] [PDF Full-Text (372 KB)] IEEE CNF

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5 **An alternative implementation of the reference monitor concept [military messaging, secure]**
King, G.; Smith, W.;
Aerospace Computer Security Applications Conference, 1988., Fourth , 12-16 1988
Pages:159 - 166

[Abstract] [PDF Full-Text (608 KB)] IEEE CNF

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6 **Multi-view memory to support OS locking for transaction systems**
Bodorik, P.; Jutla, D.N.;
Database Engineering and Applications Symposium, 1997. IDEAS '97. Proceedings., International , 25-27 Aug. 1997
Pages:309 - 318

[Abstract] [PDF Full-Text (924 KB)] IEEE CNF

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1 **An algorithm for nearly-minimal collapsing of finite-state machine networks**
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2 **The maximum set of permissible behaviors for FSM networks**
Watanabe, Y.; Brayton, R.K.;
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Garetto, M.; Renato Lo Cigno; Meo, M.; Marsan, M.A.;
Networking, IEEE/ACM Transactions on , Volume: 12 , Issue: 2 , April 2004
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[Abstract] [PDF Full-Text (560 KB)] **IEEE JNL**

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4 **Implementation of efficient and reliable multicast servers**
Weijia Jia; Lee, C.H.; Xiaohua Jia; Jiannong Cao;
Advances in Parallel and Distributed Computing, 1997. Proceedings , 19-21 M 1997
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